

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on page 7, line 9, with the following amended paragraph:

Figure 1 (A-D) shows a cDNA sequence (SEQ ID NO:1) of a hSMMMyHC variant ~~using all exons (exons 1-43).~~

Please replace the paragraph beginning on page 7, line 13, with the following amended paragraph:

Figure 3 (A-D) shows a cDNA sequence (SEQ ID NO:3) of a hSMMMyHC variant ~~missing exon 42 (uses exons 1-41 and 43).~~

Please replace the paragraph beginning on page 19, line 29, with the following amended paragraph:

The present invention provides an isolated hSMMMyHC polypeptide. Preferably, the polypeptide will comprise at least 50 contiguous amino acids of SEQ ID NO:2; SEQ ID NO:4; SEQ ID NO:6; SEQ ID NO:8; ~~SEQ ID NO:10; SEQ ID NO:12;~~ SEQ ID NO:10; SEQ ID NO:12; or SEQ ID NO:14. More preferably, the polypeptide comprises SEQ ID NO:2; SEQ ID NO:4; SEQ ID NO:6; SEQ ID NO:8; ~~SEQ ID NO:10; SEQ ID NO:12;~~ SEQ ID NO:10; SEQ ID NO:12; or SEQ ID NO:14; or a substantially identical mutein, fragment, homolog, analog, or fusion protein thereof. According to a preferred embodiment, the polypeptide comprises the sequence -QGPSFAY- (i.e., ~~SEQ ID NO:16~~ SEQ ID NO:15; the insertion in the motor domain derived from the splice variant as described below). The polypeptides of this invention can also be fused in polypeptide linkage to a heterologous polypeptide sequence.